IN THE CLAIMS:

Please CANCEL claims 19-31 and 34 without prejudice or disclaimer and ADD new claim 40 in accordance with the following.

1. (PREVIOUSLY PRESENTED) A burst error correction method in an HD-DVD having data groups encoded therein, adding an inner parity of e bytes and an outer parity of f bytes to an error correction block having a size of n bytes in a row direction x m bytes in a column direction, the error correction method comprising:

obtaining a plurality of inner parity blocks (PI blocks) by segmenting the error correction block in an inner parity (PI) direction into x segments, wherein x is an integer equal to or greater than 2;

generating e-byte PI for each of the plurality of PI blocks generated by segmenting, and adding the PIs in the PI direction;

generating f-byte outer parity (PO) in a PO direction of the error correction block having PIs, and adding the POs in the PO direction; and

interleaving a plurality of data groups and the plurality of PIs in the PI direction in the error correction blocks having PIs and POs.

- 2. (PREVIOUSLY PRESENTED) The error correction method of claim 1, wherein the PIs are Reed-Solomon codes and satisfy $(n/x) + e \ge 256$.
- 3. (ORIGINAL) The error correction method of claim 2, wherein $(n+e) \times (m+f)$ is less than or equal to 64K.
- 4. (ORIGINAL) The error correction method of claim 3, wherein n is 688 and m is 96.
 - 5. (ORIGINAL) The error correction method of claim 4, wherein x is 172 and e is 8.
 - 6. (ORIGINAL) The error correction method of claim 5, wherein f is 12.
 - 7. (CANCELLED)

8. (PREVIOUSLY PRESENTED) The error correction method of claim 1, wherein the interleaving further comprises:

gathering bytes having the same order in each of the data groups; and allocating the gathered bytes sequentially according to their order.

- 9. (PREVIOUSLY PRESENTED) The error correction method of claim 8, wherein the reallocating is performed in the PI groups in a single data row.
- 10. (PREVIOUSLY PRESENTED) The error correction method of claim 1, wherein the interleaving further comprises reallocating a plurality of PIs (PI0, PI1, ..., PIn/x) by gathering bytes having a same order in bytes included in each of the plurality of PIs, thereby forming reallocated PI groups.
- 11. (ORIGINAL) The error correction method of claim 10, wherein the reallocating is performed in the PIs in a single data row.
 - 12. (ORIGINAL) The error correction method of claim 10, further comprising: moving and allocating the reallocated PIs between the reallocated PIs groups.
 - 13. (ORIGINAL) The error correction method of claim 11, further comprising: interleaving the POs in the PO direction.
- 14. (ORIGINAL) The error correction method of claim 13, wherein the PO direction interleaving further comprises:

obtaining an n x f byte bit stream by lining up the f-byte POs sequentially, and forming a divided PO by dividing the bit stream into each $\{(n \times f)/m\}$; and

moving and allocating the divided PO in the PO direction in each row.

15. (PREVIOUSLY PRESENTED) The error correction method of claim 4, wherein n x m is a basic address unit recorded on the HD-DVD, the method further comprising:

dividing the error correction block into a plurality of data frames, each of the data frames comprising a 4-byte ID, a 2-byte IED, an 18-byte RSV, two 2-KB user data blocks, and two 4-byte EDCs.

- 16. (ORIGINAL) The error correction method of claim 1, further comprising determining f, which is a number of PO direction parities, and x, which is a number of PI direction segments, are decided so that a result of multiplication of x with f can be divided by o, which is a number of data frames in one error correction block, without remainder, and a recording frame is formable even when f is not equal to o.
- 17. (PREVIOUSLY PRESENTED) The error correction method of claim 16, wherein $(n/x) + e \ge 256$ so that an operation in a Galois Field is performed.
- 18. (ORIGINAL) The error correction method of claim 8, wherein the reallocating is performed in the PI groups in a plurality of data rows.

19-34. (CANCELLED)

35. (PREVIOUSLY PRESENTED) An error correction method adding an inner parity of e bytes and an outer parity of f bytes to an error correction block having a size of n bytes in a row direction x m bytes in a column direction, the error correction method comprising:

obtaining a plurality of inner parity blocks (PI blocks) by segmenting the error correction block in an inner parity (PI) direction into x segments, wherein x is an integer equal to or greater than 2;

generating e-byte PI for each of the plurality of PI blocks generated by segmenting, and adding the PIs in the PI direction;

generating f-byte outer parity (PO) in a PO direction of the error correction block having Pls, and adding the POs in the PO direction; and

interleaving a plurality of data groups and the plurality of PIs in the PI direction in the error correction blocks having PIs and POs,

wherein the interleaving further comprises reallocating a plurality of PIs (PI0, PI1, ..., PIn/x) by gathering bytes having a same order in bytes included in each of the plurality of PIs, thereby forming reallocated PI groups.

- 36. (PREVIOUSLY PRESENTED) The error correction method of claim 35, wherein the reallocating is performed in the PIs in a single data row.
 - 37. (PREVIOUSLY PRESENTED) The error correction method of claim 35, further

comprising:

moving and allocating the reallocated PIs between the reallocated PIs groups.

38. (PREVIOUSLY PRESENTED) The error correction method of claim 36, further comprising:

interleaving the POs in the PO direction.

39. (PREVIOUSLY PRESENTED) The error correction method of claim 38, wherein the PO direction interleaving further comprises:

obtaining an n x f byte bit stream by lining up the f-byte POs sequentially, and forming a divided PO by dividing the bit stream into each $\{(n \times f)/m\}$; and

moving and allocating the divided PO in the PO direction in each row.

40. (NEW) A burst error correction method in an HD-DVD having data groups encoded therein, adding an inner parity of e bytes and an outer parity of f bytes to an error correction block having a size of n bytes in a row direction x m bytes in a column direction, the error correction method comprising:

obtaining a plurality of inner parity blocks (PI blocks) by segmenting the error correction block in an inner parity (PI) direction into x segments, wherein x is an integer equal to or greater than 2:

generating f-byte outer parity (PO) in a PO direction of the error correction block, and adding the POs in the PO direction;

generating e-byte PI for each of the plurality of PI blocks generated by segmenting, and adding the PIs in the PI direction; and

determining f, which is a number of PO direction parities, and x, which is a number of PI direction segments, so that a result of multiplication of x with f can be divided by o, which is a number of data frames in one error correction block, without remainder, and a recording frame is formable even when f is not equal to o.